

What is claimed is:

1. A wireless communications system for use in the transportation industry, comprising:

5 at least one data transmission device including a user interface providing a user functionality to enter into said at least one data transmission device at least one predefined data field and data associated with the at least predefined data field,  
10 the at least one predefined data field and the data associated therewith formatted in accordance with a standard format including at least one first standard format for the at least one predefined data field and at least one second standard format for the data, and  
15 the data including at least one of economic and logistical data relating to at least one of shipment, delivery and receipt of shipped goods;

at least one remote computing device, operatively connectable to said at least one data  
20 transmission device, and receiving each of the at least one predefined data field and the data transmitted by said at least one data transmission device, and processing the at least one first standard format for the at least one predefined data  
25 field and the at least one second standard format for

the data responsive to the standard format using at least one application program stored on said at least one remote computing device configured to receive the standard format comprising the at least one first  
5 standard format for the at least one predefined data field and the at least one second standard format for the data; and

at least one network operatively connectable to each of said at least one data transmission device  
10 and each of said at least one remote computing device, and transmitting the at least one first standard format for the at least one predefined data field and the at least one second standard format for the data responsive to the standard format to said at  
15 least one remote computing device and receiving the at least one first standard format for the at least one predefined data field and the at least one second standard format for the data responsive to the standard format from said at least one data  
20 transmission device.

2. The wireless communications system as recited in claim 1, wherein each standard format comprises a bill of lading, a weight, a shipper zip,  
25 a consignee zip, a number of pieces shipped, a

delivery date, a name of an individual who signed a  
delivery receipt, a product number, an indication  
that the goods are delivered, an indication that the  
goods are picked up, an estimated time of arrival, a  
5 comment, an indication that a trailer is being  
dropped off, an indication that a trailer is being  
picked up, a drop/hook indication, and an indication  
that the goods are at least one of over, short and  
damaged.

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3. The wireless communications system as  
recited in claim 1, wherein each of the at least one  
predefined data field comprises a user-entered pre-  
defined representation corresponding to at least one  
15 of a word and phrase and facilitates utilization of  
at least a portion of the transmitted data with at  
least one of the data file and the data file format  
associated with at least application program residing  
on said at least one remote computing device.

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4. The wireless communications system as  
recited in claim 3, wherein each of the at least one  
predefined data field comprises a user-entered pre-  
defined representation corresponding to at least one  
25 of a word and phrase comprising a bill of lading, a

weight, a shipper zip, a consignee zip, a number of  
pieces shipped, a delivery date, a name of an  
individual who signed a delivery receipt, a product  
number, an indication that the goods are delivered,  
5 an indication that the goods are picked up, an  
estimated time of arrival, a comment, an indication  
that a trailer is being dropped off, an indication  
that a trailer is being picked up, a drop/hook  
indication, and an indication that the goods are  
10 over, short or damaged.

5. The wireless communications system as  
recited in claim 1, wherein each of the at least one  
data transmission device is a portable device.

15 6. The wireless communications system as  
recited in claim 1, wherein each of the at least one  
data transmission device verifies that the user has  
entered a valid predefined data field prior to  
20 transmission.

7. The wireless communications system as  
recited in claim 1, wherein each of the at least one  
remote computing device verifies that a valid data

field has been received prior to utilizing the transmitted data.

8. The wireless communications system as recited  
5 in claim 1, wherein each of the at least one networks comprise:

a scheduler determining which of the at least one data transmission devices are active;

a device action manager receiving notification  
10 from said scheduler and monitoring which of said at least one transmission devices have requested to download a message from the at least one remote computing device;

a download manager receiving notification via said  
15 scheduler at which time messages associated with each of the at least one data transmission device are to be downloaded;

a message lookup manager determining an identifier associated with each message associated with each of  
20 the at least one transmission device and selecting those messages that have not been downloaded from the at least one remote computing device to the respective first communications device; and

a message processor for retrieving messages from  
25 the remote computing device and transmitting the

messages to the respective data transmission device as determined by a selection system.

9. The system according to claim 8, wherein the at  
5 least one data transmission device is a wireless  
messaging device having a first identifier associated  
with said at least one network and the at least one  
remote computing device is an e-mail server storing  
messages for at least one e-mail account, each e-mail  
10 account having a second identifier associated  
therewith, wherein the at least one data transmission  
device and the at least one remote computing device  
transmit signals to each other via said networks, and  
wherein the predetermined criteria are respective  
15 identifiers associated with each of the at least one  
data transmission device and the at least one remote  
computing device.

11. The system according to claim 9, wherein said  
20 signals comprise at least one of an electronic mail  
message, an electronic page, and a paging message.

12. The system according to claim 8 wherein said  
download manager downloads messages subsequent to  
25 receiving an indication from said scheduler and said

lookup manager.

13. The system according to claim 8 wherein said message processor converts the message format of the at least one second communications device to a message format of the at least one data transmission device.

14. The system according to claim 8 wherein said lookup manager deletes a message record when a corresponding message is transmitted to the at least one data transmission device.

15. The system according to claim 8 wherein said scheduler further determines the time at which each of the at least one data transmission devices are to receive a message.

16. The system according to claim 1 wherein each of said at least one data transmission device have a common domain name associated therewith.

17. The system according to claim 8, wherein said scheduler accesses subscriber information from the selection system to determine user specified download times.

18. A method for standardizing data communications, pertaining to economic and/or logistical data relating to the shipment, delivery  
5 and/or receipt of goods, between at least one data transmission device and at least one remote computing device, comprising the steps of:

a) entering into at least one data transmission device a predefined data field and associated data,  
10 wherein the predefined data field and the associated data comprise a standard format;

b) transmitting the predefined data field and the associated data to at least one remote computing device;

15 c) receiving by the at least one remote computing device the predefined data field and associated data; and

d) utilizing at least a portion of the data received in step c) with at least one of a data file  
20 and a data format associated with at least one application program residing on the at least one remote computing device.

19. The method according to claim 18, wherein  
25 each of the at least one predefined data field



comprises a user-entered pre-defined representation corresponding to a word or phrase pertaining to at least one of a bill of lading, a weight, a shipper zip, a consignee zip, a number of pieces shipped, a  
5 delivery date, a name of an individual who signed a delivery receipt, a product number, an indication that the goods are delivered, an indication that the goods are picked up, an estimated time of arrival, a comment, an indication that a trailer is being  
10 dropped off, an indication that a trailer is being picked up, a drop/hook indication, and an indication that the goods are over, short or damaged.

20. The method according to claim 18, wherein  
15 each of the at least one remote computing device verifies that a valid data field has been received prior to utilizing the transmitted data.

21. The method according to claim 18, wherein  
20 each of the at least one data transmission device is a portable device.

22. The method according to claim 18, wherein each of the at least one data transmission device

verifies that the user has entered a valid predefined data field prior to transmission.